

SEQUENCE LISTING

<110> Campochiaro, Peter A.

<120> OCULAR GENE THERAPY

<130> OP/4-32696P1

<160> 21

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 183

<212> PRT

<213> Human

<400> 1

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His Ser His Arg Asp Phe Gln Pro Val Leu His Leu Val Ala Leu Asn
 1           5           10           15
Ser Pro Leu Ser Gly Gly Met Arg Gly Ile Arg Gly Ala Asp Phe Gln
      20           25           30
Cys Phe Gln Gln Ala Arg Ala Val Gly Leu Ala Gly Thr Phe Arg Ala
      35           40           45
Phe Leu Ser Ser Arg Leu Gln Asp Leu Tyr Ser Ile Val Arg Arg Ala
      50           55           60
Asp Arg Ala Ala Val Pro Ile Val Asn Leu Lys Asp Glu Leu Leu Phe
65           70           75           80
Pro Ser Trp Glu Ala Leu Phe Ser Gly Ser Glu Gly Pro Leu Lys Pro
      85           90           95
Gly Ala Arg Ile Phe Ser Phe Asp Gly Lys Asp Val Leu Arg His Pro
      100          105          110
Thr Trp Pro Gln Lys Ser Val Trp His Gly Ser Asp Pro Asn Gly Arg
      115          120          125
Arg Leu Thr Glu Ser Tyr Cys Glu Thr Trp Arg Thr Glu Ala Pro Ser
      130          135          140
Ala Thr Gly Gln Ala Ser Ser Leu Leu Gly Gly Arg Leu Leu Gly Gln
145          150          155          160
Ser Ala Ala Ser Cys His His Ala Tyr Ile Val Leu Cys Ile Glu Asn
      165          170          175
Ser Phe Met Thr Ala Ser Lys
      180

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<210> 2

<211> 551

<212> DNA

<213> Human

<400> 2

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acagccaccg cgacttccag ccggtgctcc acctggttgc gctcaacagc
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gcggcatgcg gggcatccgc ggggccgact tccagtgtt ccagcaggcg
cgggccgtgg      120
ggctggcggg caccttccgc gccttcctgt cctcgcgctt gcaggacctg
tacagcatcg      180
tgcgccgtgc cgaccgcgca gccgtgccca tcgtcaacct caaggacgag
ctgctgtttc      240
ccagctggga ggctctgttc tcaggctctg agggtcgctt gaagcccggg
gcacgcatct      300

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tctcctttga cggcaaggac gtcctgaggg accccacctg gccccagaag  
 agcgtgtggc 360  
 atggctcggg ccccaacggg cgcaggctga ccgagagcta ctgtgagacg  
 tggcggacgg 420  
 aggctccctc ggccacgggc caggcctcct cgctgctggg gggcaggctc  
 ctggggcaga 480  
 gtgccgcgag ctgccatcac gectacatcg tgctctgcat tgagaacagc  
 ttcattgactg 540  
 cctccaagta g  
 551

<210> 3  
 <211> 207  
 <212> PRT  
 <213> Mouse

<400> 3  
 Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro  
 1 5 10 15  
 Gly Ser Thr Gly Asp Ala Ala His Thr His Gln Asp Phe Gln Pro Val  
 20 25 30  
 Leu His Leu Val Ala Leu Asn Thr Pro Leu Ser Gly Gly Met Arg Gly  
 35 40 45  
 Ile Arg Gly Ala Asp Phe Gln Cys Phe Gln Gln Ala Arg Ala Val Gly  
 50 55 60  
 Leu Ser Gly Thr Phe Arg Ala Phe Leu Ser Ser Arg Leu Gln Asp Leu  
 65 70 75 80  
 Tyr Ser Ile Val Arg Arg Ala Asp Arg Gly Ser Val Pro Ile Val Asn  
 85 90 95  
 Leu Lys Asp Glu Val Leu Ser Pro Ser Trp Asp Ser Leu Phe Ser Gly  
 100 105 110  
 Ser Gln Gly Gln Leu Gln Pro Gly Ala Arg Ile Phe Ser Phe Asp Gly  
 115 120 125  
 Arg Asp Val Leu Arg His Pro Ala Trp Pro Gln Lys Ser Val Trp His  
 130 135 140  
 Gly Ser Asp Pro Ser Gly Arg Arg Leu Met Glu Ser Tyr Cys Glu Thr  
 145 150 155 160  
 Trp Arg Thr Glu Thr Thr Gly Ala Thr Gly Gln Ala Ser Ser Leu Leu  
 165 170 175  
 Ser Gly Arg Leu Leu Glu Gln Lys Ala Ala Ser Cys His Asn Ser Tyr  
 180 185 190  
 Ile Val Leu Cys Ile Glu Asn Ser Phe Met Thr Ser Phe Ser Lys  
 195 200 205

<210> 4  
 <211> 624  
 <212> DNA  
 <213> Mouse

<400> 4  
 atggagacag acacactcct gctatgggta ctgctgctct gggttccagg  
 ttccactggt 60  
 gacgcggccc atactcatca ggactttcag ccagtgtctc acctggtggc  
 actgaacacc 120  
 ccctgtctg gaggcattgcg tggtatccgt ggagcagatt tccagtgtct  
 ccagcaagcc 180  
 cgagccgtgg ggctgtcggg caccttccgg gctttctgt cctctaggct  
 gcaggatctc 240  
 tatagcatcg tgcgcctgac tgaccggggg tctgtgccca tcgtcaacct  
 gaaggacgag 300

gtgctatctc ccagctggga ctccctgttt tctggctccc agggtaagt  
 gcaacccggg 360  
 gcccgcatct tttcttttga cggcagagat gtcctgagac acccagcctg  
 gccgcagaag 420  
 agcgtatggc acggctcgga cccagtgagg cggaggctga tggagagtta  
 ctgtgagaca 480  
 tggcgaactg aaactactgg ggctacaggt caggcctcct ccctgctgtc  
 aggcaggctc 540  
 ctggaacaga aagctgcgag ctgccacaac agctacatcg tcctgtgcat  
 tgagaatagc 600  
 ttcattgacct ctttctccaa atag  
 624

<210> 5  
 <211> 8  
 <212> PRT  
 <213> Human

<400> 5  
 Ala Pro Gln Gln Glu Ala Leu Ala  
 1 5

<210> 6  
 <211> 38  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Primer

<400> 6  
 actggtgacg cggcccatatc tcattcaggac ttccagcc  
 38

<210> 7  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Primer

<400> 7  
 aagggtatc gatctagctg gcagaggcct at  
 32

<210> 8  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR Primer

<400> 8  
 cactgcttac tggcttatcg  
 20

<210> 9  
 <211> 29  
 <212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 9

ctgatgagta tgggccgcgt caccagtgg  
29

<210> 10

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 10

aagggctatc gatctagctg gcagaggcct at  
32

<210> 11

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 11

gatctctaga ccaccatgca tactcatcag gactt  
35

<210> 12

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 12

actggagaaa gaggtttatc tagctactag  
30

<210> 13

<211> 18

<212> PRT

<213> Adenovirus

<400> 13

Met	Arg	Tyr	Met	Ile	Leu	Gly	Leu	Leu	Ala	Leu	Ala	Ala	Val	Cys	Ser
1				5					10					15	
Ala	Ala														

<210> 14

<211> 96

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 14

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ggcagtctgc 60

agcgcgggccc atactcatac tcatacaggac tttcag

96

<210> 15

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 15

atcgatcata ctcatcagga ctttcagcc

29

<210> 16

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 16

gcggccgcct atttgagaa agaggtcat

29

<210> 17

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 17

tttttttttc agtgtaaaag gtc

23

<210> 18

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 18

cagatgacat cctggccag

19

<210> 19

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 19

ctatacagga aagtatggca gc  
22

<210> 20

<211> 118

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 20

gccaaagcttc catgagggcc tggatcttct ttctcctttg cctggccggg  
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cagccctca gcaagaagcg ctcgctcaca gccaccgca cttccagccg gtgctcca  
118

<210> 21

<211> 123

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 21

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tgctgagggg 60  
ctgccagagc cctcccggcc aggcaaagga gaaagaagat ccaggccctc  
atggaagctt 120  
ggc  
123